

1080 HD car 4G video recorder 4CH specifications

一、 Product appearance size: 146x130 x42mm



二、 Function Introduction:

1. Hisilax HI3521 V100 solution, H.264-265 compression mode, multi-stream recording, up to 1080P HD video effect;
2. 2.8V-36V adaptive wide voltage input range (greater than 42V automatic shutdown protection), ultra-low power design, suitable for all kinds of cars, large cars and special vehicles;
3. Professional vehicle power supply protection design, no burning, with international standard power polarity reverse protection, loss/overvoltage/overcurrent protection, short circuit protection;
4. UPS power technology, in the case of sudden abnormal power failure, video can be saved normally, and the video will not be missed during the recording process;
5. Automatic trigger display function (IN1-IN4 trigger input function can be set, the screen automatically switches to display the corresponding screen);
6. High resolution 1920x1080 (including video input, output and video resolution);
7. Support HD 1080P, 960P, 720P, CVBS and other video formats mixed input;
8. Support multi-disk cyclic storage, main stream storage, small stream storage and other

storage strategies;

9. Support 1TB SD card video recording, use aviation shockproof materials to reduce data damage caused by vehicle vibration, can adapt to more harsh road conditions,

10. A variety of display modes can be independently set as the boot screen to meet the special needs of different users;

11. Each camera screen can be independently set left and right mirror, flip up and down, rotate 90 degrees, rotate 270 degrees;

12. Each camera screen can be independently set brightness, contrast, saturation, chroma and sharpness;

13. Each road camera screen can be independently set up the driving scale line (users can adjust the position and width of the auxiliary line);

14. Each camera screen can be independently set up mobile amplification, cutting unnecessary pictures around the video;

15. Support video output up - down - left - right edge screen scaling adjustment, to adapt to a variety of screen full display, not cut;

16. Provide DC12V power output, which can provide constant voltage power supply for multiple peripheral devices such as cameras and displays

17. Real-time HD video, video 1080P/720P/D1 optional, frame rate picture quality is adjustable;

18.4 way alarm input (open and close doors, lights, steering, braking, reversing can be configured), can be linked to a variety of responses;

19.2 alarm output, support linkage sound and light alarm, oil cut-off power;

20. Remote support audio and video monitoring, two-way voice intercom, manual alarm, overspeed alarm, overcrossing and line deviation alarm;

21. Display and record vehicle driving status, license plate, line, super/low speed and other vehicle information for easy management;
22. Powerful client program, providing real-time monitoring, monitoring intercom, playback, video, high-definition screenshots and other functions
23. Support to open/close OSD character overlay function (time, date, channel number, vehicle information, etc.);
24. Support 3G/4G/ WIFI//GPS/BD/ and other module expansion; Remote monitoring can be achieved through 3G/4G/WIFI (real-time video, monitoring, intercom, broadcast; Video inquiry, playback, download; Parameter setting, firmware upgrade);
25. Support simplified/traditional Chinese, English, Korean, Russian and other multi-language menus (other language menus can be customized);
26. Software upgrade or remote upgrade can be carried out by TF card, U disk;
27. Support startup LOGO customization;
28. Support configuration parameter export and import functions;
29. Support mobile phone and PC remote monitoring, video support in the machine playback;
30. Can be customized according to customer functional needs;

Specification parameters:

Item		parameter
Operating system		Embedded Linux system Hisilicon solution
System language		Simplified/Traditional Chinese, English, Russian, Korean (other languages can be customized)
Video compression format		H.264 compression mode
OSD		Character superposition function, support time, date, channel name, vehicle ID and other information superposition
GUI	Graphic OSD	System parameters can be set by external display and remote control
Video and video System	Video input	4CH 1080P backward compatible
	Video output	VGA x1; CVBS x1 (M12 Aircraft head 1.0 VP-75 ω)
	Preview	Single-channel, 2/4 picture splicing preview, support manual/event trigger full

	function	screen display function
	Video resolution	1920x1080
	Video quality	Normal, standard (default), HD, Ultra HD 4 optional
	Video recording mode	Automatic power-on recording
Audio frequency	Audio input	4-way M12 air head interface
	Audio output	Route 1 (M12 head)
	Compressed format	G.7111U compression format, 8KB/s
Alarm input		4 IO alarm input, pulse speed input; With alarm linkage function
Alarm output		2 switch quantity output, linkage sound and light alarm, oil cut-off power and so on
Communication interface		One RS232 port One RS485 port
Wireless transmission		Support built-in 3G wireless transmission function, WCDMA, CDMA2000,TD-SCDMA compatible with GPRS, EDGE; Built-in 4G wireless transmission function, TDD-LTE, FDD-LTE
orientation		Support built-in GPS/BD module;
store	SD card	SD card supports a maximum of 1TB
	Upgrade mode	Support U disk upgrade, TF card upgrade, FTP remote automatic upgrade
	Storage mode	Proprietary raw disk Preallocated storage (industry advanced storage)
	USB	USB interface, you can use U disk backup video and upgrade
Video playback	Video search	You can search video data by recording time and recording method
	playback	Supports four simultaneous playback, pause, fast forward, and fast rewind
Power supply and power consumption	Power management	Adaptive wide power input, reverse protection, power loss/overvoltage/overcurrent protection, short circuit protection;
	Input voltage	Support delay shutdown function.
	Output voltage	DC:+8V ~ +36V (greater than 42V automatic shutdown protection)
	Power dissipation	+12V@2.5A, +5V@2A
Working environment	temperature	-30 °C to +70 °C
	humidness	20% ~ 80%
Safety management	Password access	User password and administrator password are managed at two levels
other	dimension	146x130 x42mm
	Net weight	0.5 KG

Like storage time calculation method: total capacity of memory card \div (video file size x6) \div capacity ratio = time

Example: 8G \div (220Mx6) \div 1024=6H

The following table:

Video quality	Video file size 10 minutes	8G	32G	64G	128G	256G	512G	1TB
Normal	110M	12 小时	48 小时	96 小时	192 小时	384 小时	768 小时	1536 小时
Standard	220M	6 小时	24 小时	48 小时	96 小时	192 小时	384 小时	768 小时
High definition	330M	4 小时	16 小时	32 小时	64 小时	128 小时	256 小时	512 小时
ultra	440M	3 小时	12 小时	24 小时	48 小时	96 小时	192 小时	384 小时

Interface functions on the rear panel:



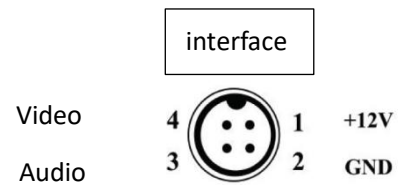
- 1, POWER: DC power interface, 8V-36V voltage input (greater than 42V automatic shutdown protection);
- 2, VGA: VGA HD video signal output;
- 3, I/O: 4 trigger input IN1~IN4, 12V output, RS232, RS485 and other functional interfaces;
- 4, AUDIO: audio output interface;
- 4, CH1~CH4: camera input interface (M12 aviation head);
- 5, OUT: CVBS video output interface (M12 aviation head);
- 6, WIFI\4G\GPS: WIFI, 4G network, GPS positioning function antenna interface (optional);

Front panel interface functions:



- 1, SD: SD card slot (video, backup, upgrade);
- 2, SIM: 3G/4G SIM phone card slot;
- 3, panel lock: need to lock the panel to start the machine normally;
- 4, USB: U disk video, backup, upgrade and mouse operation;
- 5, IR: infrared remote control reception;
- 6, SD1 indicator: SD card work indicator;
- 7, SD2 indicator: SD card work indicator;
- 8, PWR indicator: power indicator;
- 9, NET indicator: network indicator (network success often bright, CMSV6 platform successfully connected to blink);

Aircraft head interface power definition:



五、 Support customization of function

Such as: customize other camera interface, special display mode